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Fig. 1

HTRAM. DNA	10	ATGGCGATTG	GCAAGAAAG	CACCAAGAGC	CCCCCAAGTGC	TGAGCCACGA	50
KIAA0057. DNA	1	ATGCCCTTTC	GCACCGAGA-	--CGAAAAGT	TACCCGCT	TGAGCCAGGA	50
HWAR1. DNA	1	ATGGGGCTCC	GAAAGAAGAG	CACCAAGAAC	CCCCQQGTTC	TCAGCCAGGA	50
RWAR1. DNA	1	ATGGGGCTCC	GCAAGAAAGA	CGCCACGAAAC	CCCCGGTGC	TGAGCCACGA	50
HTRAM. DNA	50						
KIAA0057. DNA	51	ATTCGTCCCTG	CAGAAATCAG	CGGACATCG	CTCCCTG1GTG	GGCATGGTCT	100
HWAR1. DNA	51	GTTCGTCACTC	CACAAACATG	CGGACATCG	CTTCTGCCCTG	GTGCTCTGCG	100
RWAR1. DNA	51	ATTCATCCCTG	CAGAAATCAG	CGGACATCG	CTCCTGCGTG	GGGATGTTCT	100
HTRAM. DNA	60						
KIAA0057. DNA	60	ATTCGTCCCTG	CAGAAATCAG	CGGACATCG	CTCCTG1GTG	GGCATGGTCT	100
HWAR1. DNA	60	GTTCGTCACTC	CACAAACATG	CGGACATCG	CTTCTGCCCTG	GTGCTCTGCG	100
RWAR1. DNA	60	ATTCATCCCTG	CAGAAATCAG	CGGACATCG	CTCCTGCGTG	GGGATGTTCT	100
HTRAM. DNA	90						
KIAA0057. DNA	90						
HWAR1. DNA	90						
RWAR1. DNA	90						
HTRAM. DNA	100						
KIAA0057. DNA	100						
HWAR1. DNA	100						
RWAR1. DNA	100						
HTRAM. DNA	110						
KIAA0057. DNA	110	TCCTGCTGGC	GCTCATGTT	GAGATAACGG	CAAAGCTTC	TATCATTTTT	150
HWAR1. DNA	110	TCCTCATCGG	GCTTATGTTC	GAGGTACACG	CCAAGCTTC	CTTTCATT	150
RWAR1. DNA	110	TCCTGCTGGC	GCTTGTGTTC	GAGGGAAACAG	CAGAACATC	CATCGTGT	150
HTRAM. DNA	120						
KIAA0057. DNA	120						
HWAR1. DNA	120						
RWAR1. DNA	120						
HTRAM. DNA	130						
KIAA0057. DNA	130						
HWAR1. DNA	130						
RWAR1. DNA	130						
HTRAM. DNA	140						
KIAA0057. DNA	140						
HWAR1. DNA	140						
RWAR1. DNA	140						
HTRAM. DNA	150						
KIAA0057. DNA	150						
HWAR1. DNA	150						
RWAR1. DNA	150						
HTRAM. DNA	160						
KIAA0057. DNA	160						
HWAR1. DNA	160						
RWAR1. DNA	160						
HTRAM. DNA	170						
KIAA0057. DNA	170						
HWAR1. DNA	170						
RWAR1. DNA	170						
HTRAM. DNA	180						
KIAA0057. DNA	180						
HWAR1. DNA	180						
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KIAA0057. DNA	200						
HWAR1. DNA	200						
RWAR1. DNA	200						
HTRAM. DNA	210						
KIAA0057. DNA	210						
HWAR1. DNA	210						
RWAR1. DNA	210						
HTRAM. DNA	220						
KIAA0057. DNA	220						
HWAR1. DNA	220						
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HWAR1. DNA	240						
RWAR1. DNA	240						
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KIAA0057. DNA	290						
HWAR1. DNA	290						
RWAR1. DNA	290						
HTRAM. DNA	300						
KIAA0057. DNA	300						
HWAR1. DNA	300						
RWAR1. DNA	300						
HTRAM. DNA	310						
KIAA0057. DNA	310						
HWAR1. DNA	310						
RWAR1. DNA	310						

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Fig. 1 (cont.)

HTRAM. DNA	301	ATGTTGGATA	AAATTAAACAG	GCGAATGCAC	TTCCTCAA	CAAAACACAG	350
KIAA0057. DNA	301	ATTTAGATA	AAATCAGCAA	ACGGTTCAT	CTCTCCAAAG	TCAAAACACAG	350
HWAR1. DNA	301	GTGTTGGATA	AAATTAAACAA	GAGAATGCAG	TTCAACCAAG	CGAAACAAAA	350
RWAR1. DNA	301	GTGCTAGATA	AGCTCAGCCG	GAGACTGCAG	CTAACCAAG	GCAAAACAAA	350
	360		370	380	390	400	
HTRAM. DNA	351	CAAGTTTAAT	GAATCTGGTC	AGCTTAGTGC	GTTCCTACTT	TTTGCCCTGTG	400
KIAA0057. DNA	351	CAAGTTCAAT	GAATCTGGAC	AGCTGGTCGT	CTTTCATTC	ACCTCGGTGA	400
HWAR1. DNA	351	CAAGTTAAC	GAGTCTGGTC	AGTITAGTGT	GTTCCTACTT	TTTCTCTGTA	400
RWAR1. DNA	351	CAAATTGAAT	GAGGCCGGGC	AGCTGAGTGT	GTTCCTACATA	GTGTCTGGTA	400
	410		420	430	440	450	
HTRAM. DNA	401	TTTGGGCAC	ATTCAATTCTC	ATCTCTGAAA	ACTACATCTC	AGACCCAAC	450
KIAA0057. DNA	401	TTTGGTGCCT	CTACGGGGTG	GTGACCGGAA	GATACTAAC	AAACCCAAAGA	450
HWAR1. DNA	401	TTTGGGCAC	ATTCAATTCTA	ATCTCTGAAA	ACTGCGCTGTC	AGACCCAAC	450
RWAR1. DNA	401	TCTGGGTAT	GATCAATTCTG	GCCTCTGACA	ACTGCGCTGTC	AGACCCOACT	450
	460		470	480	490	500	
HTRAM. DNA	451	ATCTATGGA	GGGCTTATCC	CCATAACCTG	ATGACATTC	AAATGAAGTT	500
KIAA0057. DNA	451	AGCCCTCTGGG	AAAGACTAACCC	GCATGTGCAC	CTCCGCCCTCC	AGGTGAAGTT	500
HWAR1. DNA	451	CTTATATGGA	AGGCTCTGTC	CCATAAGCATC	ATGACATTC	AAATGAAGTT	500
RWAR1. DNA	451	CTATGTGGG	AGTCTCAAGCC	CCACAAACATG	ATGACATTC	AGATGAAGTT	500
	510		520	530	540	550	
HTRAM. DNA	501	TTTCTACATA	TCACAGCTGG	CTTACTGGCT	TCATGCTTT	CCIGAACTCT	550
KIAA0057. DNA	501	TTTCTACATA	TGCCAGCTGG	CCACTGGCT	GCAAGCACTT	CCIGAGCTAT	550
HWAR1. DNA	501	TTTCTACATA	TCCCAGTGG	CTTACTGGTT	TCATGCTTT	CCIGAACTCT	550
RWAR1. DNA	501	TTTCTACATA	TCACAGTGG	CTTACTGGTT	TCATAGTTT	CCGGAGCTCT	550
	560		570	580	590	600	

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Fig. 1 (cont.)

HTRAM. DNA	551	ACTTCCAGAA	AACCAAAAAA	GAAGATATT	CTCGTCAGCT	TGTCTACATT	600
KIAA0057. DNA	551	ACTTCCAGAA	GGTACGGAAG	GAGGAATTTC	CCGGCCAGCT	CCAGTATT	600
HWAR1. DNA	551	ACTTCCAGAA	AACCAAAAAA	CAAGACATCC	CTCGTCAGCT	TGTCTACATT	600
RWAR1. DNA	551	ACTTCCAGAA	AGTCAGGAA	CAAGATATCC	CGGGTCAGCT	CATCTACATT	600
HTRAM. DNA	601	GGTTCTTACC	TCTTCCACAT	TGCTGGAGCT	TACCTTGTGA	ACTTGAATCA	650
KIAA0057. DNA	601	TGCCTGTACC	TGGTGCATAT	AGCTGGAGCA	TACCTCTTAA	ACCTGAAGCG	650
HWAR1. DNA	601	GGTCTTCACC	TCTTCCACAT	TACTGGAGCT	TATCTCTTGT	ACTTGAATCA	650
RWAR1. DNA	601	GGCCTCCACC	TCTTCCACAT	TGAGGGGCC	TATCTCTTGT	ACTTGAACCA	650
HTRAM. DNA	660	670	680	690	700		
KIAA0057. DNA	651	TCTAGGACTT	GTCTCTTCTGG	TGCTACATTA	TTTGTGAA	TTTCTTTC	700
HWAR1. DNA	651	CCTGGCCCTG	ATCTTGCTGC	TGCTGAGTA	CTCAACTGAG	TTCCCTCTTC	700
RWAR1. DNA	651	TTTGGGACTT	CTTCTTTTGG	TACTGCATTA	TTTGTGAA	TTACTTTC	700
HTRAM. DNA	710	720	730	740	750		
KIAA0057. DNA	701	ACATTCCCC	CCTGTTTAT	TTTAGCAATG	AAAAGTATCA	GAAGGATT	750
HWAR1. DNA	701	ACACGGCTAG	ACTCTCTTAC	TTTGCAGATG	AAAACAACCA	GAACCTGTC	750
RWAR1. DNA	701	ACATGTCGG	CCCTGTTTAC	TTTAGTGATG	AAAAGTACCA	GAAGGGATA	750
HTRAM. DNA	760	770	780	790	800		
KIAA0057. DNA	751	TCTCTGTGGC	CAGTCTTIT	TGTITGGCA	AGACTTGTGA	CTTTTAATTCT	800
HWAR1. DNA	751	AGTGGCTGGC	CTGGCTTIT	TGGGTTTAC	GGCCTCTTCA	TCCCTACCCCT	800
RWAR1. DNA	751	TCTCTGTGGC	CCATCTGTCT	TATCTGGT	AGACTTGAG	CTTTAAATTGT	800
HTRAM. DNA	810	820	830	840	850		
KIAA0057. DNA	801	TTCACTACTG	ACTGTTGGCT	TGGCTTGC	AAGGGAGAA	AATCAGAAC	850
HWAR1. DNA	801	TGCCGTGCTG	CCATTTGGCT	TGGACTGGC	TCECATGAA	AACCAAGGCAT	850
RWAR1. DNA	801	TTCCGTACTC	ACTGTTGGCT	TTCACCTGGC	TGGATGGAG	AATCCGAATC	850
HTRAM. DNA	860	870	880	890	900		
KIAA0057. DNA							
HWAR1. DNA							
RWAR1. DNA							

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Fig. 1 (cont.)

HTRAM. DNA	851	TGGATTTCAG	TACTGAAAC	TTCATGTGT	TAGCTGTAG	AATGCTGT	900
KIAA0057. DNA	851	TGGATCCGA	GAAAGGGAAC	TTCATAACCT	TGTTTGCAG	GCTCTGCGTG	900
HWAR1. DNA	851	CTGATGCCCT	TAATGGAAAT	GTAATGTGT	TGGCAGCTAA	AATGCTGT	900
RWAR1. DNA	851	GAAATGCTCT	CCTGGTAAAT	GTCATGTGT	TGGCAGCTAA	AATGCTGT	900
	910		920	930	940	950	
HTRAM. DNA	901	CTGGCATCCA	TTTGGCTTAC	TICAGGCATT	ATGATGCGA	AGTCATCAA	950
KIAA0057. DNA	901	CTGCTGCTGG	TGTGTCGCC	CCAGGCCTGG	CTCATGGC	GCTTCATCCA	950
HWAR1. DNA	901	CTGTCGTCCA	GTTGCAACAT	CCAAACCTAC	GTAACATGGA	ACTTAAATTAC	950
RWAR1. DNA	901	CTGTCCTCGA	CTTGGCAGTAT	CCAGGGTAC	ATAACATGGA	CCTTGCGAC	950
	960		970	980	990	1000	
HTRAM. DNA	951	TTTTCAGCTT	CGAAGGTGGA	GGGAACATTC	TGCTTTTCAG	-GCACCAAGCT	1000
KIAA0057. DNA	951	CTCCCACTGG	CGGCACTGGC	GGGAATACTG	GAATGCGAG	AGTGCAGAAC	1000
HWAR1. DNA	951	TCTCTGGCTT	CAGGGTGGG	TAGAAGATTC	TAATATTGAG	-GCCATCATGT	1000
RWAR1. DNA	951	CGTCCTGGCTT	CAGAGATGCT	TAGAAGATGC	GAATCTCAT	-GTCT---GT	1000
	1010		1020	1030	1040	1050	
HTRAM. DNA	1001	GTGAAAGAA	ACCCA-ACAG	TAACCAA-AG	GCAGATCTTC	TAAAAAGGA	1050
KIAA0057. DNA	1001	GGAGAGTCCC	AGCCACACCC	AGACTACCCAG	CCAGGCTCAT	CAAGAGCGAA	1050
HWAR1. DNA	1001	ATGAAAAGAA	AAC-----GG	TCG-----	--AGATCTTC	TAAAAAGA	1050
RWAR1. DNA	1001	GGGAGGAAGA	GAC-----GG	TC-----	-CAGGTC---	GAGAAAAGGC	1050
	1060		1070	1080	1090	1100	
HTRAM. DNA	1051	ACAGAAAATG	GTGTGAATGC	AAACATTAAC	TCAAATGTAG	CAGACTCTCC	1100
KIAA0057. DNA	1051	TCTGTTACC	ATGAAAATGG	AGTGGTGAAG	GCAGAGAACG	GAACCTCCCC	1100
HWAR1. DNA	1051	ACAGAAAACG	GAATGCGG	AGTGGAAACT	TCAAATAGAG	TAGACTGTCC	1100
RWAR1. DNA	1051	ACAGAAAATG	CAGTGGAA-G	AA-----T	CCAAATAGAA	TAGATTCCTCC	1100
	1110		1120	1130	1140	1150	
HTRAM. DNA	1101	CGGAAATAAA	AAAGAGAAAT	CTTCAT	.....	.....	1150
KIAA0057. DNA	1101	ACGGAACTAAG	AAACTAAAG	CTCC	.....	.....	1150
HWAR1. DNA	1101	GGCAAGGACG	AAAGAGAAAT	CTTCAT	1150
RWAR1. DNA	1101	ACCAAGAAG	AAAGAGAAAG	CTCC	1150



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Fig. 2

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Fig. 2 (cont.)

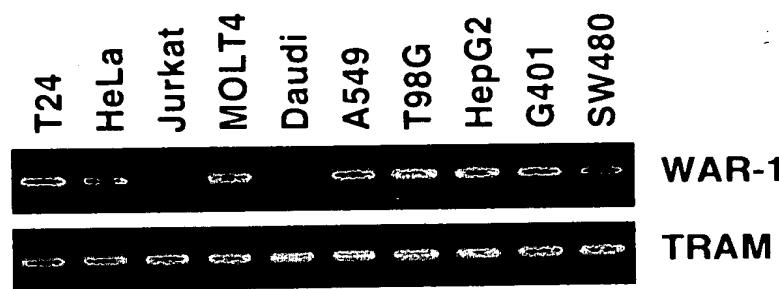
HTRAM. AMI	201	GIYLFIHAGA	YILINLNHLGI	VLLVLHYEVE	FLFHIISRLFY	ESNEKYQKGE	250
KIAA0057 . AMI	201	CIVLVIHAGA	YILINLNHLGI	ILLIQLYSYE	FLEHTARLFY	EADENNEKLE	250
HWARI . AMI	201	GHILEHITGA	YILLYLNHLGI	LLLVLHYEVE	LISHMCGLFY	ESDEKYQKGI	250
RWAR1 . AMI	201	GHILFHIGGA	YILLYLNHLGI	LLIMIHYAVE	LISSVCSTLY	EGDERYQKGL	250
	260		270	280	290	300	
HTRAM. AMI	251	SIMAVLFVIG	RILTLISVIL	TVGFGLARAЕ	NOKLDFESTGN	ENVLAVRIAV	300
KIAA0057 . AMI	251	SAMAATFGVT	RIFILTLAVI	AIGFGLARMЕ	NQAFDPPEKGN	FNTLFCRLCV	300
HWARI . AMI	251	SIMAAIVFILEG	RLVTLIVSVI	TVGFHLAGSQ	NRNPDALTGN	VNVLAAKIAV	300
RWAR1 . AMI	251	SIMPPIFISC	RLVTLIVSW	TVGLHLAGT-	NRNGNALSIGN	VNVLAAKIAV	300
	310		320	330	340	350	
HTRAM. AMI	301	IASHICVTOAF	MWTKFINFQL	RRMREHSAFQ	APAVKKPFTV	TK--GRSSKK	350
KIAA0057 . AMI	301	ILLYCAAQAW	LMWTRFIHSQI	RHMREYWН-E	OSAKRVEPAT	PRUPARLIKР	350
HWARI . AMI	301	LSSSCTIQAY	VIMNLITLWL	QRWVEDSNIQ	ASCMKKK---	-R---SRSSKK	350
RWAR1 . AMI	301	LSSSCSIIQY	ITWTLTTVWL	QRWLEDANLH	V-CGRKR---	-R---SRS---	350
	360		370	380	390	400	
HTRAM. AMI	351	GTEENGUNGTL	TSNVADSPRN	KKEKSS....	.....	.....	400
KIAA0057 . AMI	351	EGSYHEENGAV	KAENGTSPT	KKIKSP....	.....	.....	400
HWARI . AMI	351	RTENGV-GVE	TSNDRVDCPK	RKEKSS....	400
RWAR1 . AMI	351	RKGTE-N-GVE	NPNRIDSPPK	KKEKAP....	400

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Fig. 3

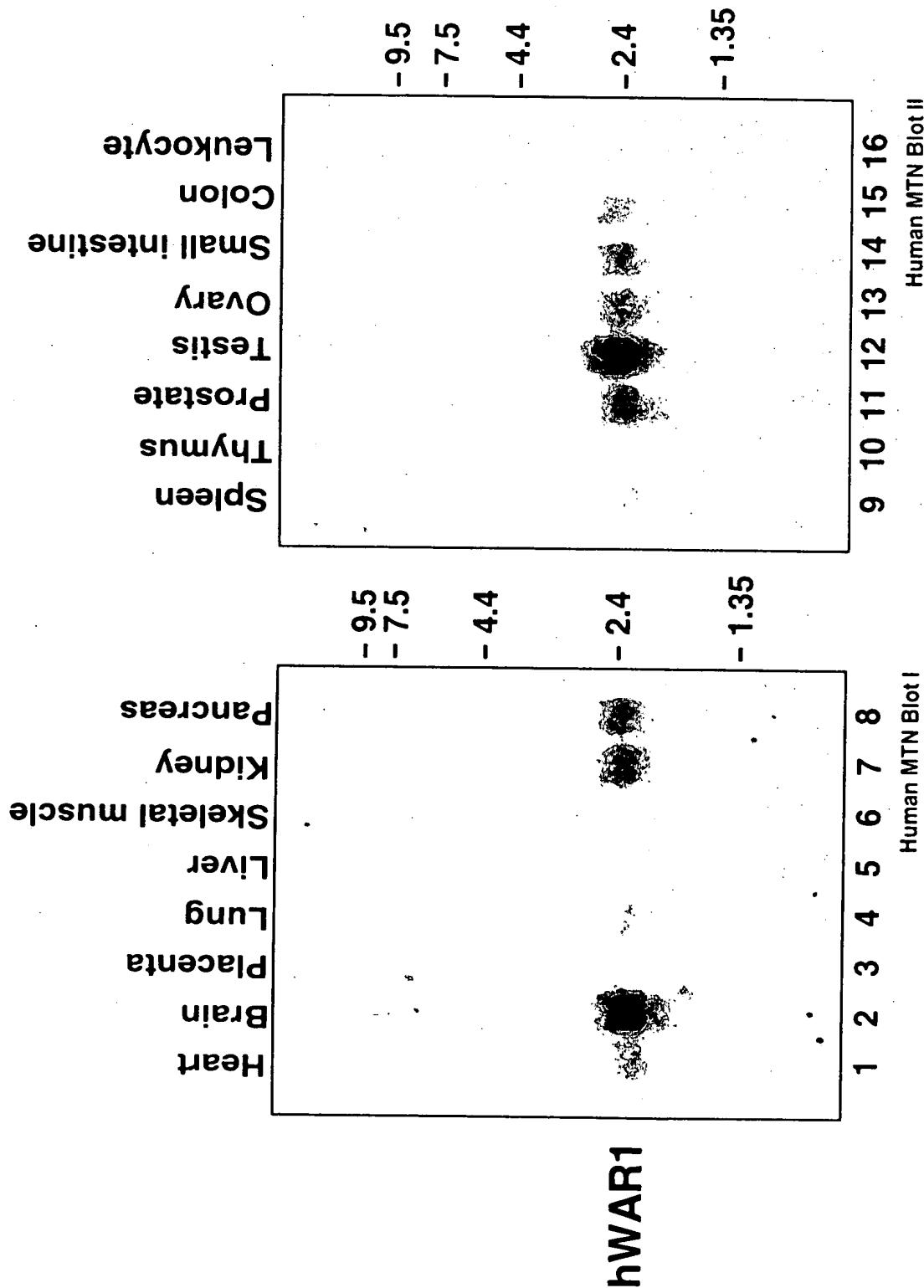


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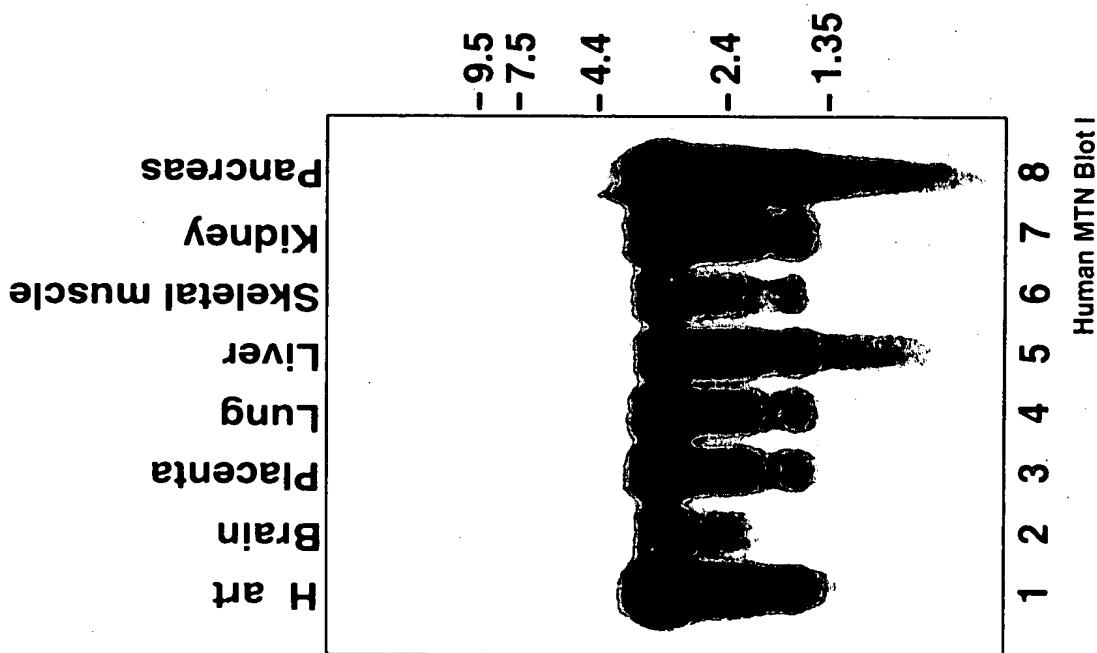
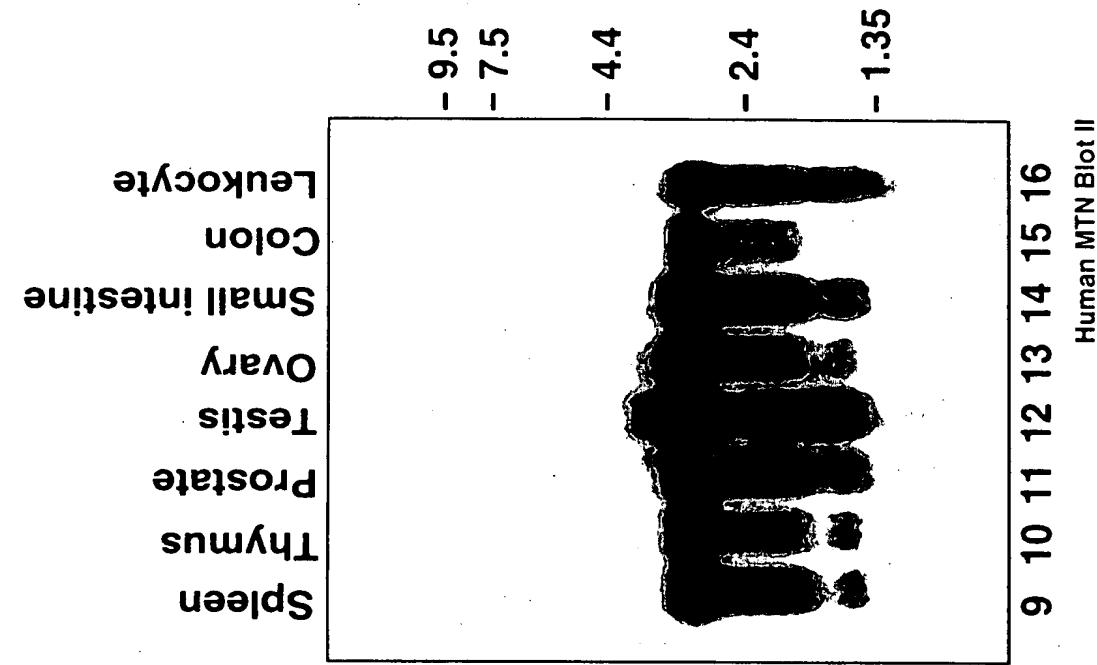
Fig. 4





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Fig. 5



hTRAM

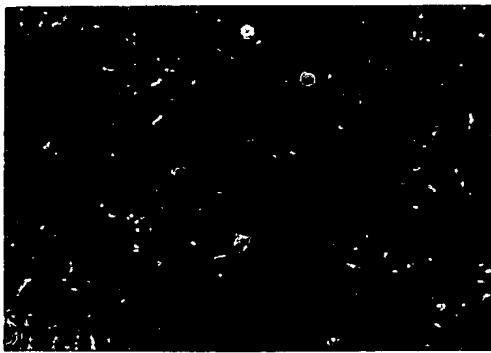
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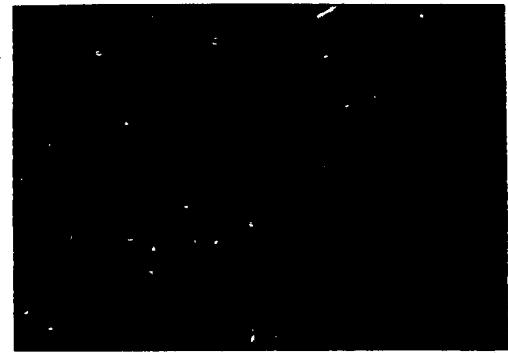
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Fig. 6

A



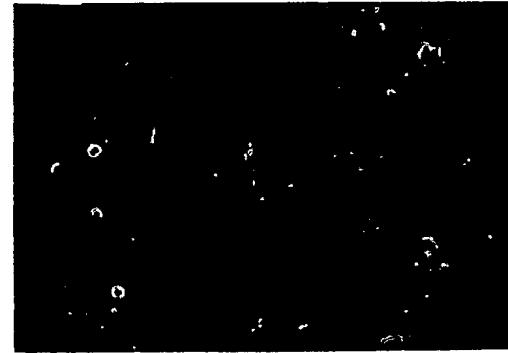
B



C



D

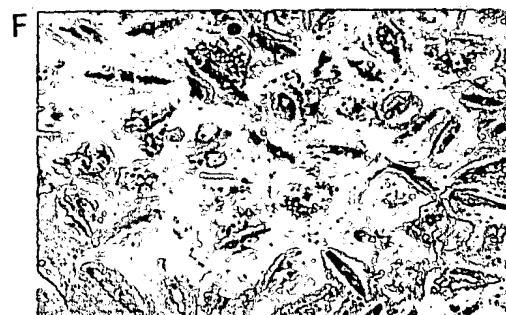


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Fig. 7

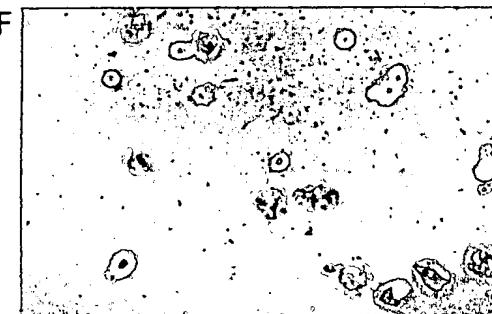
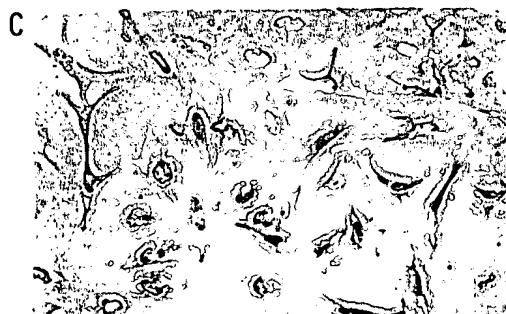


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Fig. 8

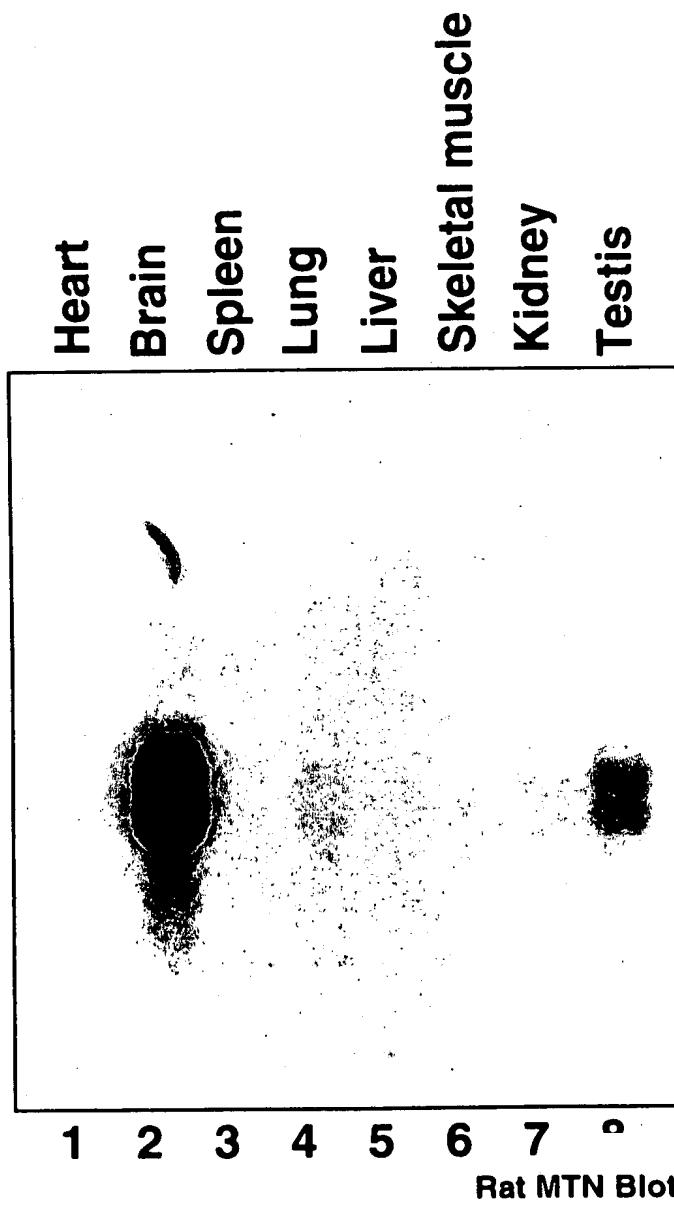


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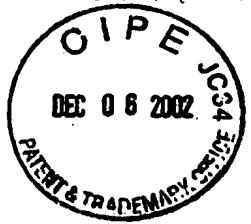


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Fig. 9



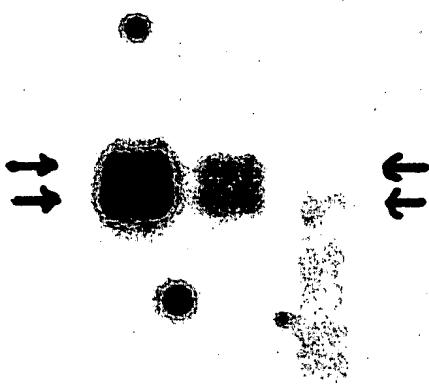
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Fig. 1 O

1 2 3



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Fig. 1 1

